REMARKS

Claims 1, 3-7, 10-21, 23-27, 30-41, 43-47, 50-66, 68 and 69 are presented for examination. In this Response, no claims have been added, amended or cancelled.

Claim Rejections under 35 U.S.C. §103(a)

Claims 1, 3-7, 10-14, 18-21, 23-27, 30-34, 38-40, and 69 were rejected as unpatentable under 35 U.S.C. §103(a) over U.S. Patent No. 6,154,493 to Acharya, et al. (hereinafter "Acharya") in view of U.S. Patent No. 6,128,413 to Benamara. Claims 15-17, 35-37, 41, 43-47, 50-66, and 68 were rejected as unpatentable under 35 U.S.C. §103(a) over Acharya in view of Benamara further in view of U.S. Patent No. 6,202,060 to Tran.

Claims 1, 3-7, 10-14, 18-20

Claim 1 recites packaging compressed luminosity information with header information identifying the individual color planes. As disclosed in the specification, compressed images are packaged into a single stream with header information to identify the individual color planes (e.g., R, G, and B planes for an RGB color filter mosaic). (Specification, p. 31, lines 4-6).

The Examiner agrees with the applicants' contention that Acharya does not teach or suggest a header identifying the individual color plane data comprising the compressed luminosity information. (Office Action dated 06/02/06, page 3, ¶4). The Examiner relies on Benamara to teach this limitation.

Benamara discloses that a color continuous tone image is compressed to produce a compressed image data file having a file size determined by a previously specified compression ratio. (Benamara, col. 10, lines 17-21). The compressed image data file includes a header.

(Benamara, col. 10, lines 43-44). The header includes (1) the specified compression ratio, (2) initial threshold values for each of the three color channels for red (R), green (G) and blue (B) color planes, and (3) other information. (Benamara, col. 10, lines 44-46). Thus, Benamara is silent about and does not teach or suggest that the header identifies the individual color planes, as recited in claim 1.

The Examiner states, however, that:

> When the previously compressed [image] is reconstructed, the header 526 is read in and the compressed data for each channel YC, IC and QC is input and decoded in MIR decoder 540 to reconstruct color planes Y', I', and Q' 546, then the reconstructed color planes 546 are converted to RGB color plane (figures 5A-5B, column 10, lines 15-65). This indicates that the header 526 identifies the individual color planes.

(Office Action dated 06/02/06, pages 3-4, ¶4).

Applicants respectfully disagree. Benamara discloses:

> In Fig. 5B, the previously compressed file 512 is reconstructed using the method of the invention. The header 526 is read in and the compressed data for each channel Y_C, I_C and Q_C is input and decoded in MIR decoder 540, yielding the reconstructed coefficients 542 (designated in the drawing as Y'^T, I'^T and Q'^T for the channels Y, I and Q respectively). The reconstructed coefficients 542 are then transformed using the inverse discrete wavelet transform 544 to yield the reconstructed color planes Y', I' and Q' 546 corresponding to those of the starting YIQ representation 518. Finally the reconstructed color planes 546 are converted from the YIQ color space to the RGB color space using YIQ-RGB transform module 548, to yield the reconstructed image 550. Of course, other color space, such as YC_bC_rHSV, LAB, and the various CIE color spaces, could be used.

(Benamara, col. 10, lines 51-65)

Thus, Benamara discloses that the compressed data for each channel is input and decoded in MIR decoder and used along with the header to yield the reconstructed coefficients, which are used to yield the reconstructed color planes. Benamara is silent about and does not teach or suggest that the header identifies the individual color planes, as recited in claim 1.

As such, applicants respectfully submit that the combination of Acharya and Benamara does not teach or suggest each and every limitation of claim 1, and therefore does not render obvious claim 1 and associated dependent claims 3-7, 10-14, 18-20.

Claims 21, 23-27, 30-34, 38-40

Claim 21 recites "packaging said compressed sensor information with header information identifying the individual color planes." As discussed earlier, the combination of Acharya and Benamara does not teach or suggest header information identifying the individual color planes that comprise the sensor information. Therefore, applicants respectfully submit that claim 21, and claims 23-27, 30-34, 38-40 that depend from it, are not obvious over the cited combination.

Claim 69

Claim 69 recites "packaging said compressed sensor information with header information identifying the individual color planes." As discussed earlier, the combination of Acharya and Benamara does not teach or suggest header information identifying the individual color planes that comprise the sensor information. Therefore, applicants respectfully submit that claim 69 is not obvious over the cited combination.

Claims 15-17

As discussed, the combination of Acharya and Benamara does not teach or suggest header information identifying the individual color planes that comprise the sensor information, as recited in independent claim 1. Tran discusses a data management system, including a portable computer. Tran also does not teach or suggest packaging compressed luminosity

information with header information identifying the individual color planes that comprise the luminosity information. As none of Acharya, Benamara and Tran teaches or suggests each and every limitation of claim 1, the combination does not render obvious claim 1 and associated dependent claims 15-17.

Claims 35-37

As discussed, the combination of Acharya and Benamara does not teach or suggest header information identifying the individual color planes that comprise the sensor information, as recited in independent claim 21. Therefore, the combination does not render obvious claim 21 and associated dependent claims 35-37.

Claims 41, 43-47, 50-66, 68

As discussed, the combination of Acharya and Benamara does not teach or suggest header information identifying the individual color planes that comprise the sensor information, as recited in independent claim 41. Therefore, the combination does not render obvious claim 41 and associated dependent claims 43-47, 50-66, and 68.

SUMMARY

In view of the foregoing remarks, applicants respectfully submit that all pending claims are in condition for allowance. Such allowance is respectfully requested.

If the Examiner finds any remaining impediment to the prompt allowance of these claims that could be clarified with a telephone conference, the Examiner is respectfully requested to contact Lester J. Vincent at (408) 720-8300.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

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Date: October 2, 2006

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